

A wide banner featuring a panoramic view of the Berlin skyline at sunrise. The sky is a mix of soft orange and light blue. The cityscape includes various buildings, a prominent white tower with a spherical top (the Fernsehturm), and a church with a dark spire. The text is overlaid on this image.

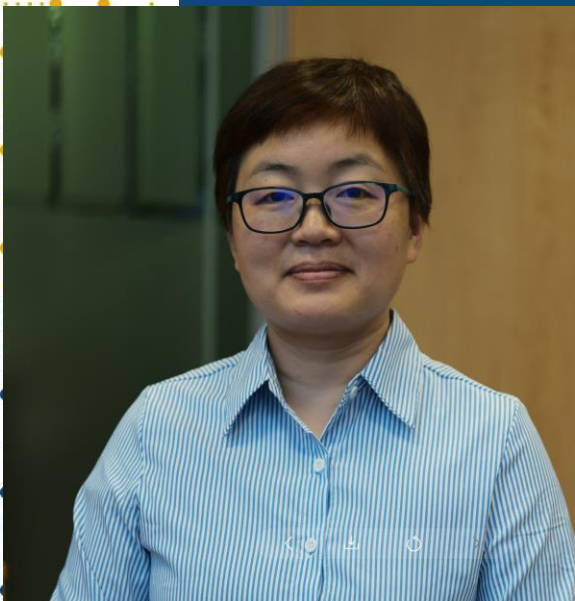
2024 CDISC + TMF
EUROPE INTERCHANGE

BERLIN

24-25 APRIL: CONFERENCE & EXPO | 22, 23, 26 APRIL: TRAININGS

Understand PFDD Guidance Series and the Impact on Data Submission

Presented by Jintao Shi, Data Manager, Boehringer Ingelheim



Meet the Speaker

Jintao Shi

Title: Data Manager

Organization: BI, Biostatistics & Data Sciences department

Current scope of work: Project data management, Data management working processes and CDISC data standards

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Disclaimer and Disclosures

- *The views and opinions expressed in this presentation are those of the author(s) and do not necessarily reflect the official policy or position of CDISC.*
- *The author(s) have no real or apparent conflicts of interest to report.*



Agenda

1. Increased Emphasis on Patient Voice
2. FDA PFDD Methodological Guidance Series
3. Guidance: Submitting PRO Data in Cancer Clinical Trials
4. Guidance: Submitting Clinical Trial Datasets & Documentation for COA Using IRT



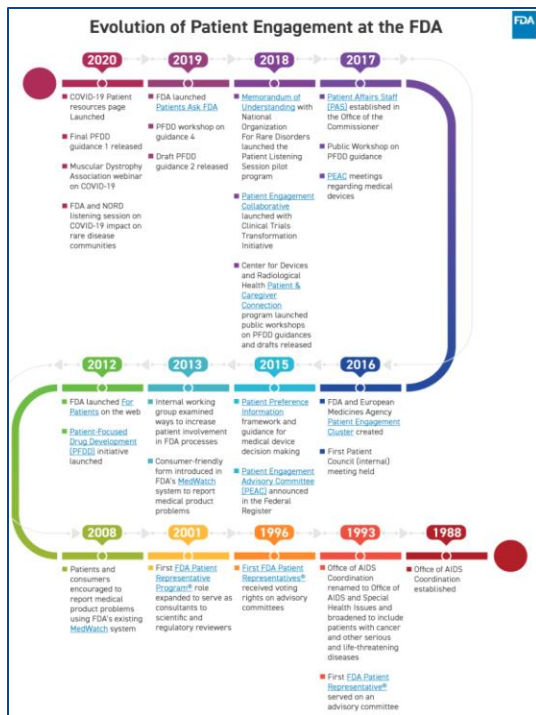
Increased Emphasis on Patient Voice

Increased Emphasis on Patient Voice

- ❑ Patients are the experts in the experience of their disease or condition, and they are the ultimate stakeholders in the outcome of medical treatment.
- ❑ Robust patient engagement approach is required to collect meaningful patient experience data and incorporate it in the whole drug development lifecycle.
- ❑ Increased role and importance of patient experience data in all aspects of healthcare decision making, including drug development strategy from biopharmaceutical organizations, regulatory review and approval process from health authorities, and Health Technology Assessment (HTA) bodies assessment for pricing and reimbursement.



Quickly evolving area



<https://www.fda.gov/patients/evolution-patient-engagement-fda>

CDER Patient-Focused Drug Development

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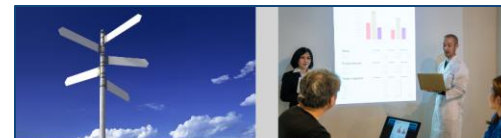
What is Patient-Focused Drug Development?

Patient-focused drug development (PFDD) is a systematic approach to help ensure that patients' experiences, perspectives, needs, and priorities are captured and meaningfully incorporated into drug development and evaluation. As experts in what it is like to live with their condition, patients are uniquely positioned to inform the understanding of the therapeutic context for drug development and evaluation.

The primary goal of patient-focused drug development is to better incorporate the patient's voice in drug development and evaluation, including but not limited to:

- Facilitating and advancing use of systematic approaches to collecting and utilizing robust and meaningful patient and caregiver input to more consistently inform drug development and regulatory decision-making
- Encouraging identification and use of approaches and best practices to facilitate patient enrollment and minimizing the burden of patient participation in clinical trials
- Enhancing understanding and appropriate use of methods to capture information on patient preferences and the potential acceptability of tradeoffs between treatment benefit and risk outcomes
- Identifying the information that is most important to patients related to treatment benefits, risks, and burden, and how to best communicate the information to support their decision making.

<https://www.fda.gov/drugs/development-approval-process-drugs/cder-patient-focused-drug-development>



[PFDD Methodological Guidance Series](#)

FDA is developing a series of methodological guidance on the collection of patient experience data, and the use of such data and related information in drug development.

[COA Grant Program](#)

FDA developed a COA Pilot Grant Program to support the development of publicly available core set(s) of Clinical Outcome Assessments (COAs) and their related endpoints for specific disease indications.



[FDA-led PFDD Meetings](#)

FDA's PFDD meetings have provided key stakeholders, including FDA, patient advocates, researchers, drug developers, healthcare providers, and others, an opportunity to hear the patient's voice.



[Externally led Patient-Focused Drug Development Meetings](#)

FDA welcomes patient organizations to identify and organize patient-focused collaborations to generate public input on other disease areas.

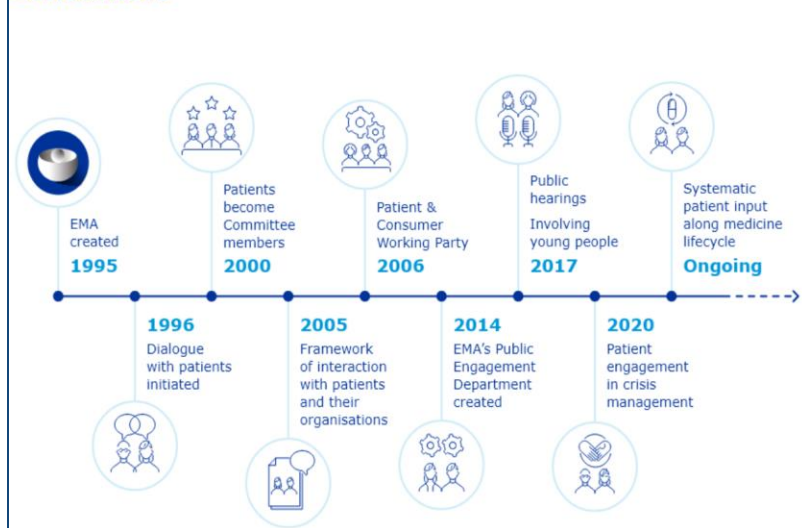


[Condition-Specific Meeting Reports](#)

This webpage hosts an alphabetical listing of condition-specific meeting reports and other information related to patients' experience. These meetings include FDA-led Patient-Focused Drug Development (PFDD) meetings, Externally led PFDD meetings, and Patient Listening Sessions.



Key milestones of EMA interaction with patients and consumers



<https://www.ema.europa.eu/en/partners-networks/patients-consumers>

Regulatory Science Strategy to 2025

On 31 March 2020, EMA published its Regulatory Science Strategy to 2025 after it was endorsed by EMA's Management Board at its [March 2020 meeting](#).



EMA Regulatory Science to 2025 - Strategic reflection

Adopted

First published: 31/03/2020

Last updated: 31/03/2020

English (EN) (4.8 MB - PDF)

“Regulatory Science Strategy to 2025” proposes the core recommendation to “Ensure the patient voice is systematically incorporated throughout drug development & associated evidence generation”

[Regulatory science strategy](#) | [European Medicines Agency \(europa.eu\)](#)

Regulatory Science/The Science Board/Standard Development

Patient Centricity WG

Document

- [Pharmaceuticals and Medical Devices Agency Guidance on Patient Participation \(September 7, 2021\)](#) 

Past Presentations (Last 5 years)

- [The outlook for Patient involvement in Medical Device Development ~Japanese Regulatory View~](#) 
Japan-US HBD East 2021 Think Tank Meeting, Web, January 2022
- [PMDA's Patient Participation Activities](#) 
18th DIA Japan Annual Meeting 2021, Web, October 2021

[Patient Centricity WG | Pharmaceuticals and Medical Devices Agency \(pmda.go.jp\)](#)



NATIONAL MEDICAL PRODUCTS ADMINISTRATION

国家药品监督管理局



国家药品监督管理局药品审评中心

CENTER FOR DRUG EVALUATION, NMPA

当前位置: 新闻中心 >> 工作动态 >> 通知公告 >> 新闻正文

国家药监局药审中心关于发布《以患者为中心的药物临床试验设计技术指导原则（试行）》《以患者为中心的药物临床试验实施技术指导原则（试行）》《以患者为中心的药物获益-风险评估技术指导原则（试行）》的通告（2023年第44号）

发布日期: 20230727

“以患者为中心”的药物研发是指基于患者角度开展的药物开发、设计、实施和决策的过程，旨在高效研发更符合患者需求的有临床价值的药物，是当前各国药品监管机构积极探索的领域。为推动“以患者为中心”理念在药物研发的实践应用，药审中心组织制定了《以患者为中心的药物临床试验设计技术指导原则（试行）》《以患者为中心的药物临床试验实施技术指导原则（试行）》《以患者为中心的药物获益-风险评估技术指导原则（试行）》（见附件1—3）。根据《国家药监局综合司关于印发药品技术指导原则发布程序的通知》（药监综药管〔2020〕9号）要求，经国家药品监督管理局审查同意，现予发布，自发布之日起施行。

特此通告。

序号

- 1 附件1.《以患者为中心的药物临床试验设计技术指导原则（试行）》.pdf
- 2 附件2.《以患者为中心的药物临床试验实施技术指导原则（试行）》.pdf
- 3 附件3.《以患者为中心的药物获益-风险评估技术指导原则（试行）》.pdf

Patient-centered study design

Patient-centered study conduct

Patient-centered risk-benefit assessment

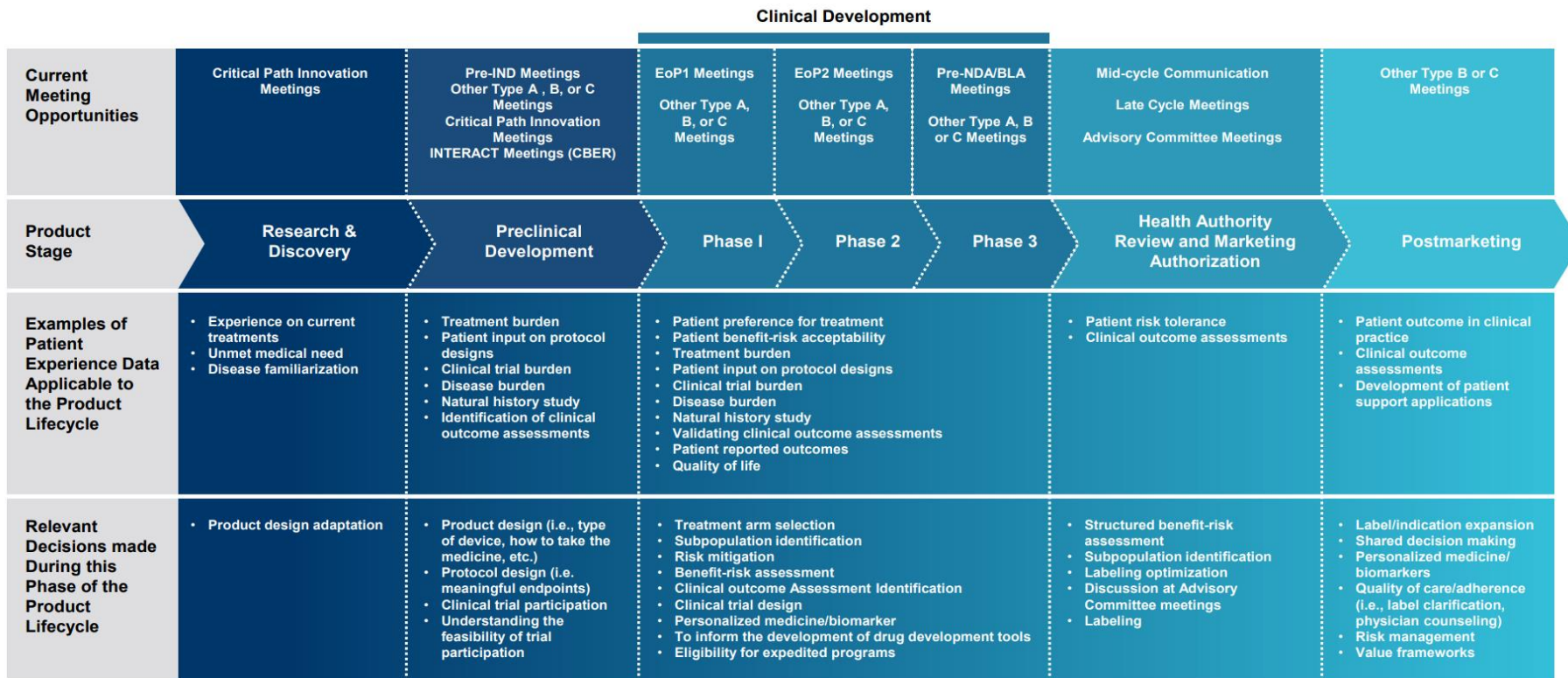
<https://www.cde.org.cn/main/news/viewInfoCommon/42c008e28f7004cd19b73949142380bd>



BIO Framework for the Use of PED



Framework for the Use of Patient Experience Data Throughout the Product Lifecycle





FDA PFDD Methodological Guidance Series

Background

- ❑ Patient Focused Drug Development (PFDD) is a systematic approach to help ensure that patients' experiences, perspectives, needs, and priorities are captured and meaningfully incorporated into drug development and evaluation.
- ❑ Legislation is driving PFDD and increased, transparent use of Patient Experience Data in US. <2012 (*Prescription Drug User Fee Act [PDUFA V](#)*), 2017 (*[PDUFA VI](#)*), and 2022 (*[PDUFA VII](#)*), 2016 (*[21st Century Cures Act](#)*)>
- ❑ The series of PFDD guidance documents are part of FDA's efforts in accordance with the legislation requirements to facilitate the incorporation of patient experience data into medical product development.

Patient-Focused Drug Development: Collecting Comprehensive and Representative Input
Guidance for Industry, Food and Drug Administration Staff, and Other Stakeholders

2020
U.S. Department of Health and Human Services
Food and Drug Administration
Center for Drug Evaluation and Research (CDER)
Center for Biologics Evaluation and Research (CBER)
June 2020
Procedural

Patient-Focused Drug Development: Methods to Identify What Is Important to Patients
Guidance for Industry, Food and Drug Administration Staff, and Other Stakeholders

2022
U.S. Department of Health and Human Services
Food and Drug Administration
Center for Drug Evaluation and Research (CDER)
Center for Biologics Evaluation and Research (CBER)
February 2022
Procedural

+TMFInterch

Patient-Focused Drug Development: Selecting, Developing, or Modifying Fit-for-Purpose Clinical Outcome Assessments
Guidance for Industry, Food and Drug Administration Staff, and Other Stakeholders

2022 draft
DRAFT GUIDANCE
This guidance document is being distributed for comment purposes only.
Comments and suggestions regarding this draft document should be submitted within 90 days of publication in the *Federal Register* of the notice announcing the availability of the draft guidance. Submit electronic comments to <https://www.regulations.gov>. Submit written comments to the Docket Management Staff (HFA-305), Food and Drug Administration, 5630 Fishers Lane, rm. 1061, Rockville, MD 20852. All comments should be identified with the docket number listed in the notice of availability that publishes in the *Federal Register*.
For questions regarding this draft document, contact (CDER) Office of Communications, Division of Drug Information at cderr@fda.hhs.gov; 855-543-7744 or 301-796-3400, or (CBER) Office of Communication, Outreach and Development at ocod@fda.hhs.gov; 800-835-4700 or 240-402-9099. For questions regarding the Center for Biologics Evaluation and Research, contact (CBER) Office of Communications, Outreach and Development at ocod@fda.hhs.gov; 800-835-4700 or 240-402-9099. For questions regarding the Center for Drug Evaluation and Research, contact (CDER) Office of Communications, Outreach and Development at ocod@fda.hhs.gov; 800-835-4700 or 240-402-9099.

2022 draft
U.S. Department of Health and Human Services
Food and Drug Administration
Center for Drug Evaluation and Research (CDER)
Center for Biologics Evaluation and Research (CBER)
Center for Devices and Radiological Health (CDRH)
June 2022
Procedural

Patient-Focused Drug Development: Incorporating Clinical Outcome Assessments Into Endpoints for Regulatory Decision-Making
Guidance for Industry, Food and Drug Administration Staff, and Other Stakeholders

2023 draft
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2023 draft
U.S. Department of Health and Human Services
Food and Drug Administration
Center for Drug Evaluation and Research (CDER)
Center for Biologics Evaluation and Research (CBER)
Center for Devices and Radiological Health (CDRH)
April 2023
Procedural

FDA PFDD Guidance

1

Collecting Comprehensive and Representative Input

Overview of **methods** to collect **robust, meaningful**, and **sufficiently representative** patient input to inform medical product development and regulatory decision-making. Serve only as a basis for dialogue in the evolving and growing discipline of the science of patient input.

2

Patient-Focused Drug Development: Methods to Identify What Is Important to Patients

Approaches to identifying what is most important to patients with respect to their experience as it relates to burden of disease/condition and burden of treatment

3

Patient-Focused Drug Development: Selecting, Developing, or Modifying Fit-for-Purpose Clinical Outcome Assessments

Recommended approaches to selecting, modifying, developing, and validating **fit-for-purpose** clinical outcome assessments (COAs) to measure outcomes of importance to patients in clinical trials.

4

Patient-Focused Drug Development: Incorporating Clinical Outcome Assessments Into Endpoints For Regulatory Decision-Making

Methods, standards, and technologies for collecting and analyzing COA data for regulatory decision-making, including selecting the **COA-based endpoint** and determining **clinically meaningful change** in that endpoint.

Technical Specifications Guidance as Supplement

To supplement the PFDD Guidance Series, FDA issued two technical specifications guidance documents to provide specifications for submission of the standardized dataset content and structure of SDTM and ADaM datasets and specifications for recommended tables and figures.

Submitting Patient-Reported Outcome Data in Cancer Clinical Trials

Guidance for Industry
Technical Specifications Document

For questions regarding this technical specifications document, contact CDER at cdcr-edata@fda.hhs.gov.

Nov 2023

U.S. Department of Health and Human Services
Food and Drug Administration
Center for Drug Evaluation and Research (CDER)
Oncology Center of Excellence (OCE)

November 2023
Technical Specifications Document

Submitting Clinical Trial Datasets and Documentation for Clinical Outcome Assessments Using Item Response Theory

Guidance for Industry
Technical Specifications Document

Nov 2023

For questions regarding this technical specifications document, contact CDER at cdcr-edata@fda.hhs.gov.

U.S. Department of Health and Human Services
Food and Drug Administration
Center for Drug Evaluation and Research (CDER)

November 2023
Technical Specifications Document



Guidance: Submitting PRO Data in Cancer Clinical Trials

SDTM

ADaM

Tables&Figures

SDTM

QS Domain

- Additional information to be considered in SUPPQS

| SUPPQS Considerations | NSV for Reference |
|-----------------------|--|
| Data Collection Mode | ADMODP (Administration Mode of Presentation) |
| Language | DCLANG (Data Collection Language) |
| Data Collector | COLAID (Collected Administrator Identifier) |
| | COLRID (Collected Respondent Identifier) |
| | COLRRL (Collected Respondent Relationship) |
| | PPRAID (Preprinted Administrator Identifier) |
| | PPRRID (Preprinted Respondent Identifier) |
| | PPRRRI (Preprinted Respondent Relationship ID) |
| ... | ... |

Could be included in QX (or ZQ ?) domain which is under discussion by CDISC

- Missing data handling
 - Different scenarios and suggested QSREASND terms.
 - If PRO measurement is missed, normally each missing item and summary score shall be included
 - Do not create data for unadministered items due to the use of computerized adaptive testing (CAT)

TS Domain

- TSPARAMCD = 'FDATECHSP'
- TSPARAM = 'FDA Tech Spec'
- TSVAL = 'Oncology PROs Technical Specifications Guidance v1.0'

ADaM

Possible match between SDTM.QS and ADQS

| SDTM Variable | ADaM Variable |
|-------------------|---------------|
| QSTESTCD | PARAMCD |
| QSTEST | PARAM |
| QSCAT | PARCAT1 |
| QSSCAT | PARCAT2 |
| QSSTRESN (quant.) | AVAL |
| QSSTRESC(qual.) | AVALC |

- Following ADaM Basic Data Structure, support needs of analysis and keep traceability.
- Dataset name could be ADQS and use PARCAT1 to differentiate different instruments if multiple instruments exist.
- All individual item scores and summary scores shall be contained.

More scenarios of PARCATy usage

| P _i | PARCAT1 | | | PARCAT2 | | | PARCAT3 | | | PARAM | | |
|----------------|--------------------------|----------------|------------------|---------------|---------------|--------|-----------|-------------|-----------|-------------|-----------|-------------|
| | Measure Name and Version | ITEM | Subscale Score 1 | Scale Score A | Scale Score B | Item 1 | Symptom 1 | Attribute 1 | Symptom 2 | Attribute 2 | Symptom 3 | Attribute 3 |
| Measure 1 | Measure Name and Version | ITEM | Subscale Score 1 | Scale Score A | Scale Score B | Item 1 | Symptom 1 | Attribute 1 | Symptom 2 | Attribute 2 | Symptom 3 | Attribute 3 |
| Measure 2 | Measure Name and Version | ITEM | Subscale Score 1 | Scale Score A | Scale Score B | Item 1 | Symptom 1 | Attribute 1 | Symptom 2 | Attribute 2 | Symptom 3 | Attribute 3 |
| Measure 3 | Measure Name and Version | ITEM | Subscale Score 1 | Scale Score A | Scale Score B | Item 1 | Symptom 1 | Attribute 1 | Symptom 2 | Attribute 2 | Symptom 3 | Attribute 3 |
| Measure 4 | Measure Name and Version | ITEM | Subscale Score 2 | Scale Score A | Scale Score B | Item 1 | Symptom 1 | Attribute 1 | Symptom 2 | Attribute 2 | Symptom 3 | Attribute 3 |
| Measure 5 | Measure Name and Version | ITEM | Subscale Score 2 | Scale Score A | Scale Score B | Item 1 | Symptom 1 | Attribute 1 | Symptom 2 | Attribute 2 | Symptom 3 | Attribute 3 |
| Measure 6 | Measure Name and Version | ITEM | Subscale Score 3 | Scale Score A | Scale Score B | Item 1 | Symptom 1 | Attribute 1 | Symptom 2 | Attribute 2 | Symptom 3 | Attribute 3 |
| Measure 7 | Measure Name and Version | SUBSCALE SCORE | Subscale Score 1 | Scale Score A | Scale Score B | Item 1 | Symptom 1 | Attribute 1 | Symptom 2 | Attribute 2 | Symptom 3 | Attribute 3 |
| Measure 8 | Measure Name and Version | SUBSCALE SCORE | Subscale Score 2 | Scale Score A | Scale Score B | Item 1 | Symptom 1 | Attribute 1 | Symptom 2 | Attribute 2 | Symptom 3 | Attribute 3 |
| Measure 9 | Measure Name and Version | SUBSCALE SCORE | Subscale Score 3 | Scale Score A | Scale Score B | Item 1 | Symptom 1 | Attribute 1 | Symptom 2 | Attribute 2 | Symptom 3 | Attribute 3 |
| Measure 10 | Measure Name and Version | SCALE SCORE | | Scale Score A | Scale Score B | Item 1 | Symptom 1 | Attribute 1 | Symptom 2 | Attribute 2 | Symptom 3 | Attribute 3 |
| Measure 11 | Measure Name and Version | SCALE SCORE | | Scale Score A | Scale Score B | Item 1 | Symptom 1 | Attribute 1 | Symptom 2 | Attribute 2 | Symptom 3 | Attribute 3 |

ADaM (cont.)

Represent missing PRO Data

- Copying from the SDTM QS.QSSTAT = 'NOT DONE' and corresponding QS.QSREASND
- When not exist in SDTM QS dataset and required in ADQS, derive new phantom records with DTYPE = 'PHANTOM', QS.QSSTAT and QS.QSREASND both null, ADQS.AREASND could be derived for the reason not done if applicable.

PROEXPFL and PROSCMFL (Y or null)

| PROEXPFL (PRO Expected Flag) | PROSCMFL(PRO Score Completed Flag) |
|---|---|
| <ul style="list-style-type: none">• An indicator variable to specify whether the PRO parameter (e.g., the individual item or summary score reported within a row) corresponds to a planned (per protocol) PRO assessment timepoint.• If PRO objectives for both (1) clinical benefit and (2) safety and tolerability are present within the same trial, two PRO Expected Flag variables should be submitted within the ADQS dataset (e.g., PROEX1FL and PROEX2FL) with definitions for each variable provided within the study metadata. | <ul style="list-style-type: none">• An indicator variable to specify whether the PRO item score or summary score is populated at a planned (per protocol) PRO assessment timepoint (i.e., where AVAL or AVALC is not empty/null). |

ADaM (cont.)

Estimands Intercurrent Events handling in ADQS

Intercurrent Events: events occurring after treatment initiation that affect either the interpretation or the existence of the measurements associated with the clinical question of interest. Intercurrent events should be addressed when describing the clinical question of interest to precisely define the treatment effect that is to be estimated.

PRO to Evaluate Clinical Benefit

- ADQS records should be created for all randomized (including randomized but not treated) patients, even after intercurrent event (treatment discontinuation, death, etc.) if there is PRO measure originally planned.
- Phantom records should be created if no records in SDTM.QS.

PRO to Inform Safety and Tolerability

- ADQS records are mainly from period before treatment discontinuation. PRO measure after treatment discontinuation should be minimized to reduce patient burden.
- It is not required to create Phantom records for assessment timepoints after a patient's death or for any timepoints for randomized but not treated patients.

ADaM (cont.)

Total Score calculated in ADQS only

AVALC is not included as standard results in quantitative

| USUBJID | VISIT | AVISIT | PARCAT1 | PARAM | PARAMCD | AVAL | QSSTAT | QSREASND | DTYPE | AREASND | DCTREAS | PROEXPFL | PROSCMFL | ONTRTFL |
|---------|---------------|---------------|--------------------------|-------------|---------|------|----------|-----------------|---------|-----------------|---------|----------|----------|---------|
| A_100_1 | SCREENING | SCREENING | Measure Name and Version | I01-Item 1 | I01 | 3 | | | | | | Y | Y | |
| A_100_1 | SCREENING | SCREENING | Measure Name and Version | I01-Item 2 | I02 | 5 | | | | | | Y | Y | |
| A_100_1 | SCREENING | SCREENING | Measure Name and Version | Total Score | TS | 8 | | | | | | Y | Y | |
| A_100_1 | CYCLE 1 DAY 1 | BASELINE | Measure Name and Version | I01-Item 1 | I01 | | NOT DONE | | | | | Y | | Y |
| A_100_1 | CYCLE 1 DAY 1 | BASELINE | Measure Name and Version | I01-Item 2 | I02 | 4 | | | | | | Y | Y | Y |
| A_100_1 | CYCLE 1 DAY 1 | BASELINE | Measure Name and Version | Total Score | TS | | | | | NOT CALCULABLE | | Y | | Y |
| A_100_1 | CYCLE 2 DAY 1 | CYCLE 2 DAY 1 | Measure Name and Version | I01-Item 1 | I01 | 2 | | | | | | Y | Y | Y |
| A_100_1 | CYCLE 2 DAY 1 | CYCLE 2 DAY 1 | Measure Name and Version | I01-Item 2 | I02 | 4 | | | | | | Y | Y | Y |
| A_100_1 | CYCLE 2 DAY 1 | CYCLE 2 DAY 1 | Measure Name and Version | Total Score | TS | 6 | | | | | | Y | Y | Y |
| A_100_1 | CYCLE 3 DAY 1 | CYCLE 3 DAY 1 | Measure Name and Version | I01-Item 1 | I01 | | NOT DONE | PATIENT REFUSAL | | PATIENT REFUSAL | | | | |
| A_100_1 | CYCLE 3 DAY 1 | CYCLE 3 DAY 1 | Measure Name and Version | I01-Item 2 | I02 | | NOT DONE | PATIENT REFUSAL | | PATIENT REFUSAL | | | | |
| A_100_1 | CYCLE 3 DAY 1 | CYCLE 3 DAY 1 | Measure Name and Version | Total Score | TS | | | | | PATIENT REFUSAL | | | | |
| A_100_2 | SCREENING | SCREENING | Measure Name and Version | I01-Item 1 | I01 | 4 | | | | | | | | |
| A_100_2 | SCREENING | SCREENING | Measure Name and Version | I01-Item 2 | I02 | 5 | | | | | | | | |
| A_100_2 | SCREENING | SCREENING | Measure Name and Version | Total Score | TS | 9 | | | | | | | | |
| A_100_2 | CYCLE 1 DAY 1 | BASELINE | Measure Name and Version | I01-Item 1 | I01 | | NOT DONE | HOSPITALIZATION | | HOSPITALIZATION | | | | |
| A_100_2 | CYCLE 1 DAY 1 | BASELINE | Measure Name and Version | I01-Item 2 | I02 | | NOT DONE | HOSPITALIZATION | | HOSPITALIZATION | | Y | | |
| A_100_2 | CYCLE 1 DAY 1 | BASELINE | Measure Name and Version | Total Score | TS | | | | | HOSPITALIZATION | | Y | | |
| A_100_2 | CYCLE 2 DAY 1 | CYCLE 2 DAY 1 | Measure Name and Version | I01-Item 1 | I01 | | | | PHANTOM | DEATH | DEATH | | | |
| A_100_2 | CYCLE 2 DAY 1 | CYCLE 2 DAY 1 | Measure Name and Version | I01-Item 2 | I02 | | | | PHANTOM | DEATH | DEATH | | | |
| A_100_2 | CYCLE 2 DAY 1 | CYCLE 2 DAY 1 | Measure Name and Version | Total Score | TS | | | | PHANTOM | DEATH | DEATH | | | |
| A_100_2 | CYCLE 3 DAY 1 | CYCLE 3 DAY 1 | Measure Name and Version | I01-Item 1 | I01 | | | | PHANTOM | DEATH | DEATH | | | |
| A_100_2 | CYCLE 3 DAY 1 | CYCLE 3 DAY 1 | Measure Name and Version | I01-Item 2 | I02 | | | | PHANTOM | DEATH | DEATH | | | |
| A_100_2 | CYCLE 3 DAY 1 | CYCLE 3 DAY 1 | Measure Name and Version | Total Score | TS | | | | PHANTOM | DEATH | DEATH | | | |

Phantom records created for timepoint after patient death, AVAL, QSSTAT, QSREASND, PROEXPFL, PROSCMFL, and ONTRTFL are all null

PROEXPFL Considerations

- Expected assessment timepoint per protocol, on therapy or at paused treatment (PROEXPFL=Y)
- Translation of the PRO measure is not available in the patient's language (PROEXPFL=null)
- PRO assessment timepoints after patient death (PROEXPFL=null)
- Patients who discontinued from treatment for reason other than death (PROEXPFL=Y for clinical benefit case. Measurement should be minimized after treatment discontinuation for safety/tolerability case)
- Patients who were randomized but not treated (PROEXPFL=Y for clinical benefit case, PROEXPFL=null for safety/tolerability case)

Table and Figures – patient disposition

Clinical benefit

Table A4. Patient Disposition when Evaluating Clinical Benefit (Denominator = Randomized Population)¹

| Analysis Visit | Treatment Arm | Randomized Patients (N) | PRO Expected ² | | | |
|----------------|---------------|-------------------------|----------------------------|---|--|---|
| | | | Patients On Therapy, n (%) | Treatment Discontinuation: Disease Progression, n (%) | Treatment Discontinuation: Adverse Event (AE), n (%) | Treatment Discontinuation: Other Reasons, n (%) |
| Baseline | Control | 600 | 600 (100.0%) | 0 (0.0%) | 0 (0.0%) | 0 (0.0%) |
| | Treatment | 602 | 602 (100.0%) | 0 (0.0%) | 0 (0.0%) | 0 (0.0%) |
| Cycle 2 Day 1 | Control | 600 | 564 (94.0%) | 16 (2.7%) | 15 (2.5%) | 0 (0.0%) |
| | Treatment | 602 | 572 (95.0%) | 10 (1.7%) | 13 (2.2%) | 0 (0.0%) |
| Cycle 3 Day 1 | Control | 600 | 525 (87.5%) | 30 (5.0%) | 26 (4.3%) | 6 (1.0%) |
| | Treatment | 602 | 542 (90.0%) | 23 (3.8%) | 21 (3.5%) | 0 (0.0%) |

Figure A1. Patient Disposition when Evaluating Clinical Benefit (Denominator = Randomized Population)



Safety and tolerability

Table A5. Patient Disposition when Informing the Evaluation of Safety and Tolerability (Denominator = Safety Population)

| Analysis Visit | Treatment Arm | Randomized Population (N) | Safety Population (N) | PRO Expected ⁵ , n (%) | PRO Not Expected | | |
|----------------|---------------|---------------------------|-----------------------|-----------------------------------|------------------|---|---|
| | | | | | Death, n (%) | Treatment Discontinuation: Disease Progression, n (%) | Treatment Discontinuation: Other Reasons, n (%) |
| Baseline | Control | 600 | 600 | 600 (100.0%) | 0 (0.0%) | 0 (0.0%) | 0 (0.0%) |
| | Treatment | 602 | 602 | 602 (100.0%) | 0 (0.0%) | 0 (0.0%) | 0 (0.0%) |
| Cycle 2 Day 1 | Control | 600 | 600 | 564 (94.0%) | 5 (0.8%) | 16 (2.7%) | 1 (0.2%) |
| | Treatment | 602 | 602 | 572 (95.0%) | 7 (1.2%) | 10 (1.7%) | 1 (0.2%) |
| Cycle 3 Day 1 | Control | 600 | 600 | 525 (87.5%) | 13 (2.2%) | 30 (5.0%) | 2 (0.3%) |
| | Treatment | 602 | 602 | 542 (90.0%) | 16 (2.7%) | 23 (3.8%) | 2 (0.3%) |

Figure A2. Patient Disposition when Informing the Evaluation of Safety and Tolerability (Denominator = Safety Population)

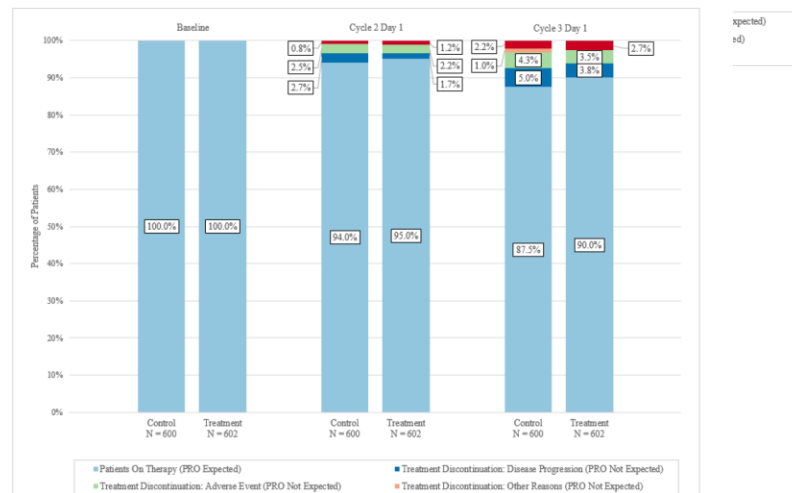


Table and Figures – available data rate & completion rate

Clinical benefit

Table A6. Available Data Rate for Clinical Benefit (Denominator = Randomized Population)⁷

| Analysis Visit | Treatment Arm | Randomized Patients (N) | PRO Completed, n (%) | PRO Not Completed ⁸ (excluding Death), n (%) | Reason for PRO Not Completed ⁹ n (%) | | | | |
|----------------|---------------|-------------------------|----------------------|---|---|--|-----------------|----------------|------------------------------------|
| | | | | | Patient Unable to Complete due to Disease Progression | Patient Unable to Complete due to Adverse Event (AE) | Patient Refusal | Device Failure | Reason Unknown ¹⁰ n (%) |
| Baseline | Control | 600 | 600 (100.0%) | 0 (0.0%) | 0 (0.0%) | 0 (0.0%) | 0 (0.0%) | 0 (0.0%) | 0 (0.0%) |
| | Treatment | 602 | 602 (100.0%) | 0 (0.0%) | 0 (0.0%) | 0 (0.0%) | 0 (0.0%) | 0 (0.0%) | 0 (0.0%) |
| Cycle 2 Day 1 | Control | 600 | 556 (92.7%) | 39 (6.5%) | 8 (1.3%) | 25 (4.2%) | 6 (1.0%) | 0 (0.0%) | 0 (0.0%) |
| | Treatment | 602 | 551 (91.5%) | 44 (7.3%) | 3 (0.5%) | 36 (6.0%) | 5 (0.8%) | 0 (0.0%) | 0 (0.0%) |
| Cycle 3 Day 1 | Control | 600 | 542 (90.3%) | 45 (7.5%) | 14 (2.3%) | 26 (4.3%) | 0 (0.0%) | 5 (0.8%) | 0 (0.0%) |
| | Treatment | 602 | 539 (89.5%) | 47 (7.8%) | 10 (1.7%) | 32 (5.3%) | 5 (0.8%) | 0 (0.0%) | 0 (0.0%) |

PROEXPFL = 'Y' and PROSCMFL=""

Figure A3. Available Data Rate for Clinical Benefit (Denominator = Randomized Population)

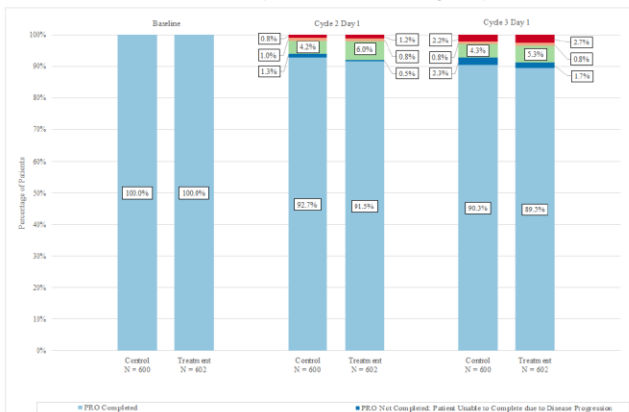
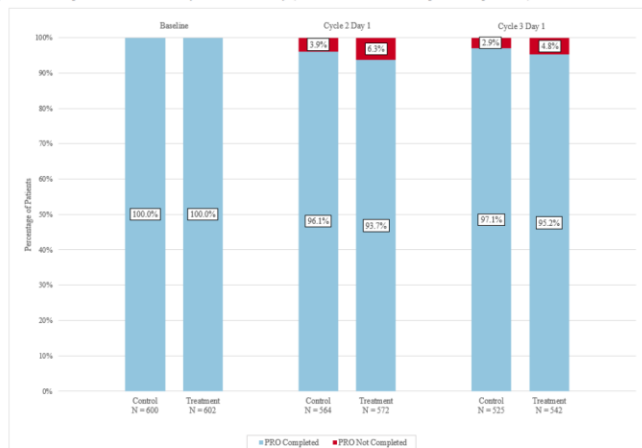


Figure A4. Completion Rate for Safety and Tolerability (Denominator = PRO Expected Population)



Safety and tolerability

Table A7. Completion Rate for Safety and Tolerability (Denominator = PRO Expected Population)¹¹

| Analysis Visit | Treatment Arm | PRO Expected ¹² (N) | PRO Completed, n (%) | PRO Not Completed, n (%) | Reason for PRO Not Completed ¹³ n (%) | | | |
|----------------|---------------|--------------------------------|----------------------|--------------------------|--|--------------------------------------|----------------|------------------------------------|
| | | | | | Patient Refusal | Patient Unable to Complete due to AE | Device Failure | Reason Unknown ¹⁴ n (%) |
| Baseline | Control | 600 | 600 (100.0%) | 0 (0.0%) | 0 (0.0%) | 0 (0.0%) | 0 (0.0%) | 0 (0.0%) |
| | Treatment | 602 | 602 (100.0%) | 0 (0.0%) | 0 (0.0%) | 0 (0.0%) | 0 (0.0%) | 0 (0.0%) |
| Cycle 2 Day 1 | Control | 564 | 542 (96.1%) | 22 (3.9%) | 6 (1.1%) | 16 (2.8%) | 0 (0.0%) | 0 (0.0%) |
| | Treatment | 572 | 536 (93.7%) | 36 (6.3%) | 5 (0.9%) | 31 (5.4%) | 0 (0.0%) | 0 (0.0%) |
| Cycle 3 Day 1 | Control | 525 | 510 (97.1%) | 15 (2.9%) | 0 (0.0%) | 10 (1.9%) | 5 (1.0%) | 0 (0.0%) |
| | Treatment | 542 | 516 (95.2%) | 26 (4.8%) | 5 (0.9%) | 21 (3.9%) | 0 (0.0%) | 0 (0.0%) |

Table and Figures – distribution

Figure A5. Distribution of Categorical Responses for Item 1 (Safety and Tolerability Example where Denominator = PRO Completed)

Table A8. Distribution of Categorical Responses for Item 1 (Safety and Tolerability Example)¹⁵

| Analysis Visit | Treatment Arm | PRO Expected ¹⁶ | PRO Completed, n (%) | PRO Not Completed, n (%) | Response | |
|----------------|---------------|----------------------------|----------------------|--------------------------|-------------|-------------|
| | | | | | Not at all | A little |
| Baseline | Control | 600 | 600 (100.0%) | 0 (0.0%) | 332 (55.3%) | 220 (36.7%) |
| | Treatment | 602 | 602 (100.0%) | 0 (0.0%) | 313 (52.0%) | 228 (37.8%) |
| Cycle 2 Day 1 | Control | 564 | 542 (96.1%) | 22 (3.9%) | 299 (55.2%) | 188 (34.8%) |
| | Treatment | 572 | 536 (93.7%) | 36 (6.3%) | 268 (50.0%) | 199 (37.0%) |
| Cycle 3 Day 1 | Control | 525 | 510 (97.1%) | 15 (2.9%) | 225 (44.1%) | 189 (37.0%) |
| | Treatment | 542 | 516 (95.2%) | 26 (4.8%) | 203 (39.3%) | 193 (37.5%) |

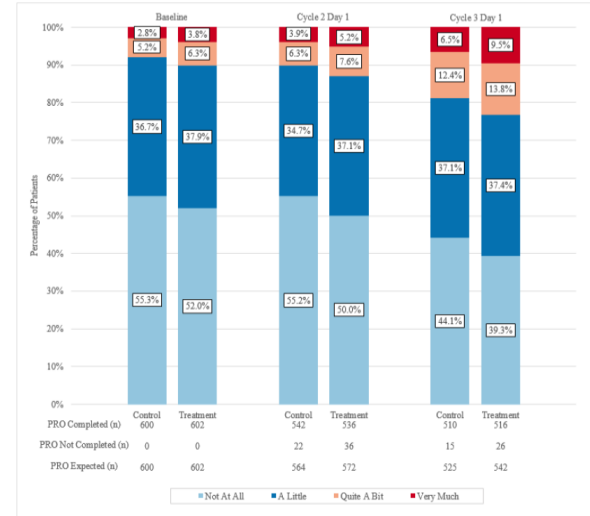


Table A9. Summary Statistics for Item 2 with Continuous Response Options (Safety and Tolerability Example)¹⁸

| Analysis Visit | | Control | Treatment |
|----------------|----------------------------------|--------------|--------------|
| Baseline | PRO Expected ¹⁹ (N) | 600 | 602 |
| | PRO Not Completed, n (%) | 0 (0.0%) | 0 (0.0%) |
| | PRO Completed, n (%) | 600 (100.0%) | 602 (100.0%) |
| | Summary Statistics ²⁰ | | |
| | Mean | 2.1 | 1.0 |
| | Standard Deviation | 1.8 | 0.9 |
| | Standard Error | 0.07 | 0.04 |
| | Median | 2.1 | 1.0 |
| | Minimum | 0.0 | 0.0 |
| | Maximum | 4.1 | 2.0 |
| Cycle 2 Day 1 | PRO Expected (N) | 564 | 572 |
| | PRO Not Completed, n (%) | 22 (3.9%) | 36 (6.3%) |
| | PRO Completed, n (%) | 542 (96.1%) | 536 (93.7%) |
| | Summary Statistics | | |
| | Mean | 7.1 | 5.1 |
| | Standard Deviation | 4.6 | 3.7 |
| | Standard Error | 0.19 | 0.15 |
| | Median | 7.2 | 5.1 |
| | Minimum | 0.3 | 0.2 |
| | Maximum | 11.8 | 9.8 |
| Cycle 3 Day 1 | PRO Expected (N) | 525 | 542 |
| | PRO Not Completed, n (%) | 15 (2.9%) | 26 (4.8%) |
| | PRO Completed, n (%) | 510 (97.1%) | 516 (95.2%) |
| | Summary Statistics | | |
| | Mean | 6.2 | 3.9 |
| | Standard Deviation | 5.2 | 2.7 |
| | Standard Error | 0.23 | 0.12 |
| | Median | 6.6 | 3.8 |
| | Minimum | 0.1 | 0.0 |

Figure A6. Descriptive Means for Item 2 with Continuous Response Options (Safety and Tolerability Example for Physical Functioning)^{21,22}

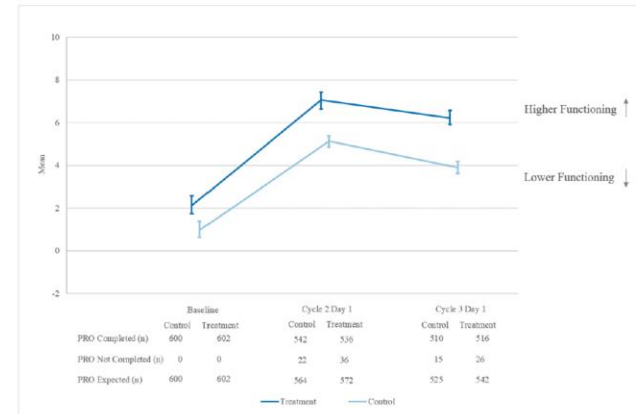


Table and Figures –distribution of change

Figure A7. Distribution of Change in Response Categories from Baseline for Item 1 (Safety and Tolerability Example where Denominator = PRO Completed)

Table A10. Distribution of Change in Response Categories from Baseline for Item 1 (Safety and Tolerability Example)

| Analysis Visit | Treatment Arm | PRO Expected ²⁴ | PRO Completed, n (%) | PRO Not Completed, n (%) | Change in Response Categories, ²⁵ n (%) | | | | | |
|----------------|---------------|----------------------------|----------------------|--------------------------|--|-------------|-------------|-------------|-------------|-------------|
| | | | | | Improving 1 | Improving 2 | Improving 3 | No Change | Worsening 1 | Worsening 2 |
| Cycle 2 Day 1 | Control | 564 | 542 (96.1%) | 22 (3.9%) | 38 (7.0%) | 11 (2.0%) | 3 (0.6%) | 303 (55.9%) | 132 (24.4%) | 38 (7.0%) |
| | Treatment | 572 | 536 (93.7%) | 36 (6.3%) | 33 (6.2%) | 14 (2.6%) | 6 (1.1%) | 296 (55.2%) | 141 (26.3%) | 32 (6.0%) |
| Cycle 3 Day 1 | Control | 525 | 510 (97.1%) | 15 (2.9%) | 50 (9.8%) | 24 (4.7%) | 10 (2.0%) | 261 (51.2%) | 126 (24.7%) | 29 (5.7%) |
| | Treatment | 542 | 516 (95.2%) | 26 (4.8%) | 44 (8.5%) | 28 (5.4%) | 11 (2.1%) | 261 (50.6%) | 123 (23.8%) | 39 (7.6%) |

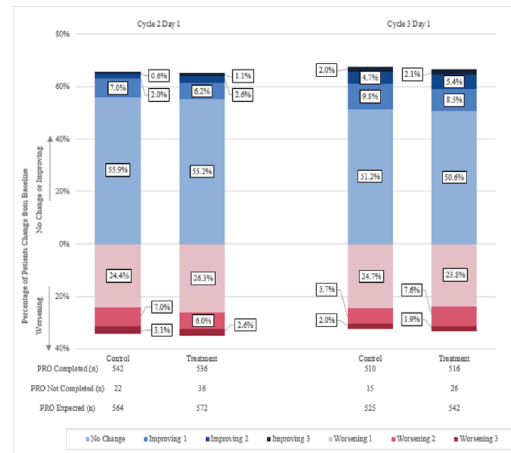


Table A11. Change from Baseline for Item 2 with Continuous Response Options (Safety and Tolerability Example)²⁶

| Analysis Visit | Treatment | Control | |
|----------------|----------------------------------|-------------|-------------|
| Cycle 2 Day 1 | PRO Expected ²⁷ (N) | 564 | 572 |
| | PRO Not Completed, n (%) | 22 (3.9%) | 36 (6.3%) |
| | PRO Completed, n (%) | 542 (96.1%) | 536 (93.7%) |
| | Summary Statistics ²⁸ | | |
| | Mean | 4.9 | 4.5 |
| | Standard Deviation | 4.0 | 1.7 |
| | Standard Error | 0.17 | 0.19 |
| | Median | 5.0 | 4.2 |
| | Minimum | -1.1 | -1.3 |
| | Maximum | 10.3 | 9.0 |
| Cycle 3 Day 1 | PRO Expected ²⁷ (N) | 525 | 542 |
| | PRO Not Completed, n (%) | 15 (2.9%) | 26 (4.8%) |
| | PRO Completed, n (%) | 510 (97.1%) | 516 (95.2%) |
| | Summary Statistics | | |
| | Mean | 4.1 | 2.9 |
| | Standard Deviation | 5.7 | 5.6 |
| | Standard Error | 0.25 | 0.24 |
| | Median | 4.2 | 2.9 |
| | Minimum | -1.6 | -1.4 |
| | Maximum | 8.0 | 8.5 |

Figure A8. Change from Baseline for Item 2 with Continuous Response Options (Safety and Tolerability Example)^{29, 30}

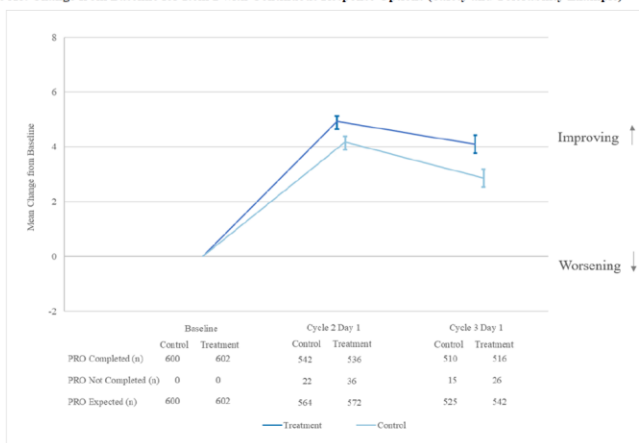


Table and Figures – healthcare utilization

5.3.7 Incidence of Healthcare Utilization

Table A12. Incidence of Healthcare Utilization (Safety and Tolerability Example where Denominator = PRO Expected)³¹

| Analysis Visit | Treatment Arm | Randomized Patients | PRO Expected ³² (N) | Healthcare Utilization Intervention, n (%) | | | | | |
|----------------|---------------|---------------------|--------------------------------|--|------------------|----------|--|---|------------------|
| | | | | Emergency Department (ED) Visits | Hospitalizations | Opiates | Supportive Care Medications (e.g., Steroids, Transfusions, Growth Factors) | Supportive Care Procedures (e.g., Palliative: Hospice, Nephrostomy) | Other (Describe) |
| Baseline | Control | 600 | 600 | 0 (0.0%) | 0 (0.0%) | 0 (0.0%) | 0 (0.0%) | 0 (0.0%) | 0 (0.0%) |
| | Treatment | 602 | 602 | 0 (0.0%) | 0 (0.0%) | 0 (0.0%) | 0 (0.0%) | 0 (0.0%) | 0 (0.0%) |
| Cycle 2 Day 1 | Control | 600 | 564 | 5 (0.9%) | 2 (0.4%) | 0 (0.0%) | 0 (0.0%) | 3 (0.5%) | 0 (0.0%) |
| | Treatment | 602 | 572 | 5 (0.9%) | 3 (0.5%) | 0 (0.0%) | 1 (0.2%) | 1 (0.2%) | 0 (0.0%) |
| Cycle 3 Day 1 | Control | 600 | 525 | 7 (1.3%) | 5 (1.0%) | 0 (0.0%) | 0 (0.0%) | 3 (0.6%) | 0 (0.0%) |
| | Treatment | 602 | 542 | 7 (1.3%) | 3 (0.6%) | 0 (0.0%) | 2 (0.4%) | 5 (0.9%) | 0 (0.0%) |



Guidance: Submitting Clinical Trial Datasets & Documentation for COA Using IRT

Item Response Theory (IRT)

IRT-based Computerized Adaptive Testing (CAT)

Scope and Background

- ❑ Fixed-form COAs that are developed and/or scored using Item Response Theory (IRT)
- ❑ COAs administered using IRT-based Computerized Adaptive Testing (CAT)

| IRT | IRT-based CAT |
|--|--|
| <p><i>Statistical framework used to model the relationship between latent traits (unobservable characteristics or attributes) and responses to items on a test or questionnaire. IRT can be used to develop, evaluate, and score COA measures. It provides a way to estimate the level of a latent trait based on a person's responses to a set of items.</i></p> <p><i>Item parameters typically include:</i></p> <ul style="list-style-type: none">• <i><u>Difficulty parameter</u>: the level of the latent trait where a respondent has a 50% chance of endorsing the item (or in the case of polytomous models, of endorsing a particular response category or higher).</i>• <i><u>Discrimination parameter</u>: how well the item differentiates between individuals at different levels of the latent trait.</i>• <i><u>Other</u>: for example, item loading parameters for item with continuous response options</i> | <p><i>A sequential form of individual testing administered by a computer in which successive items in the COA measure are selected for administration based primarily on the item's psychometric properties and content in relation to the patient's responses to previous items, to provide individualized testing for a person.</i></p> <p><i>Selection is based on the likelihood that an item will be helpful in improving the estimate of the person's score, not on the relevance of the item content.</i></p> |



Specific Information Required

When IRT is used for scoring

- Scoring details, including methods for generating scores (e.g., latent factor score (referred to as theta score throughout this document), scaled score)
- Conversion table(s) used to convert a theta score to other transformed scores (e.g., T-score), if applicable
- Psychometric software (e.g., the software name and version)

When COAs administered using CAT

- Details of item selection or routing algorithm (e.g., the algorithm used to select the next item or sets of items for the patient with content constraints and/or item exposure control (if applicable))
- The starting criteria with justification
- The termination criteria (i.e., the stopping rule) with justification

SDTM

| Domain | Recommendations |
|--|---|
| ZQ - similar concept with QX domain which is under discussion by CDISC for SDTMIG 4.0 | <ul style="list-style-type: none">• Item dataset to represent for the item bank: all items, response options, and associated model parameters• when IRT is only used in scoring, the ZQ dataset should contain information for all items within the fixed/static COA• Domain for QRS reference, including RDOMAIN, both ZQTEST/CD and ZQPARM/CD, ZQVALN/C, and ZQSE(standard error) |
| QS, FT, RS | <ul style="list-style-type: none">• --REFID could be used for covered COA measures that use CAT, since item selection and/or the order of item administration from the item bank can vary by patient and/or by assessment timepoint.• Recommended value for --REASND at different scenarios.• --ALL can be used as --TESTCD when COA measure using CAT and the measure is not administered.• Unadministered items due to the use of Computerized Adaptive Testing within the item bank should not be included within the QS dataset.• Additional variables in SUPP: Data Collection Mode, Data Collector, Language, Response Time |
| TS | <ul style="list-style-type: none">• TSPARAMCD = 'FDATCHSP'• TSPARAM = 'FDA Tech Spec'• TSVAL = 'IRT-Based COAs Technical Specifications Guidance v1.0' |

SDTM – ZQ example

All possible numeric and/or character response values for items, minimum/maximum and explanation

| STUDYID | DOMAIN | RDOMAIN | ZQSEQ | ZQCAT | ZQTEST | ZQTESTCD | ZQPARMCD | ZQPARM | ZQVALN | ZQVALC | ZQSE |
|---------|--------|---------|-------|-------------------------|--------------|----------|----------|---------------------|--------|-----------|------|
| StudyA | ZQ | QS | 1 | Example Item Bank v.1.0 | EIB01-Item 1 | EIB01 | RESP | Item Response | 1 | Never | |
| StudyA | ZQ | QS | 2 | Example Item Bank v.1.0 | EIB01-Item 1 | EIB01 | RESP | Item Response | 2 | Rarely | |
| StudyA | ZQ | QS | 3 | Example Item Bank v.1.0 | EIB01-Item 1 | EIB01 | RESP | Item Response | 3 | Sometimes | |
| StudyA | ZQ | QS | 4 | Example Item Bank v.1.0 | EIB01-Item 1 | EIB01 | RESP | Item Response | 4 | Often | |
| StudyA | ZQ | QS | 5 | Example Item Bank v.1.0 | EIB01-Item 1 | EIB01 | RESP | Item Response | 5 | Always | |
| StudyA | ZQ | QS | 6 | Example Item Bank v.1.0 | EIB01-Item 1 | EIB01 | TPAR | Threshold Parameter | -1.2 | | 0.29 |
| StudyA | ZQ | QS | 7 | Example Item Bank v.1.0 | EIB01-Item 1 | EIB01 | TPAR | Threshold Parameter | -0.6 | | 0.14 |
| StudyA | ZQ | QS | 8 | Example Item Bank v.1.0 | EIB01-Item 1 | EIB01 | TPAR | Threshold Parameter | 0.1 | | 0.02 |
| StudyA | ZQ | QS | 9 | Example Item Bank v.1.0 | EIB01-Item 1 | EIB01 | TPAR | Threshold Parameter | 0.8 | | 0.13 |
| StudyA | ZQ | QS | 10 | Example Item Bank v.1.0 | EIB01-Item 1 | EIB01 | SLOPE | Item Slope | 2.0 | | 0.22 |

EIB01-Item 1 has 5 response items:

- 5-1=4 threshold parameters
- 1 item slop parameter

Item Slope:

Discrimination parameter, is a measure of how well an item can differentiate between individuals with different levels of the latent trait.

Threshold Parameter:

Difficulty parameters, are used in IRT models to indicate the point on the latent trait scale at which a respondent has a 50% chance of responding at or above a certain category. The parameters could be different in different IRT models

ADaM

- Should contain all individual items and summary scores (e.g., raw score, theta score, scale score (e.g., a standardized score such as T-score)) and associated standard errors.
- For CAT, additional information such as the number of items that were scored (i.e., scored count) and the number of items to which the patient responded (i.e., total item count) should be submitted to validate that the termination criteria for the CAT was met and that theta score was not calculated prematurely.

| USUBJID | AVISIT | PARCAT1 | PARAM | PARAMCD | AVAL | QSSEQ | VISIT | DTYPE | QSSTAT | QSREASND |
|------------|----------|-------------------------|--------------------|----------|------|-------|---------|---------|----------|---------------------------------|
| A_100_1001 | BASELINE | Example Item Bank v.1.0 | EIB01-Item 1 | EIB01 | 4 | 1 | VISIT 1 | | | |
| A_100_1001 | BASELINE | Example Item Bank v.1.0 | EIB03-Item 3 | EIB03 | | 2 | VISIT 1 | | NOT DONE | RESPONSE NOT PROVIDED |
| A_100_1001 | BASELINE | Example Item Bank v.1.0 | EIB04-Item 4 | EIB04 | 4 | 3 | VISIT 1 | | | |
| A_100_1001 | BASELINE | Example Item Bank v.1.0 | EIB05-Item 5 | EIB05 | 5 | 4 | VISIT 1 | | | |
| A_100_1001 | BASELINE | Example Item Bank v.1.0 | EIB07-Item 7 | EIB07 | 3 | 5 | VISIT 1 | | | |
| A_100_1001 | BASELINE | Example Item Bank v.1.0 | EIB-Raw Score | EIBRAW | 12 | | VISIT 1 | | | |
| A_100_1001 | BASELINE | Example Item Bank v.1.0 | EIB-Theta Score | EIBTHETA | 2 | | VISIT 1 | | | |
| A_100_1001 | BASELINE | Example Item Bank v.1.0 | EIB-T-Score | EIBTSCR | 70 | | VISIT 1 | | | |
| A_100_1001 | BASELINE | Example Item Bank v.1.0 | EIB-Standard Error | EIBSE | 1.8 | | VISIT 1 | | | |
| A_100_1001 | VISIT 2 | Example Item Bank v.1.0 | All Questions | QSALL | | 6 | VISIT 2 | | NOT DONE | STUDY SITE FAILED TO ADMINISTER |
| A_100_1001 | VISIT 2 | Example Item Bank v.1.0 | EIB-Raw Score | EIBRAW | | | VISIT 2 | PHANTOM | | |
| A_100_1001 | VISIT 2 | Example Item Bank v.1.0 | EIB-Theta Score | EIBTHETA | | | VISIT 2 | PHANTOM | | |
| A_100_1001 | VISIT 2 | Example Item Bank v.1.0 | EIB-T-Score | EIBTSCR | | | VISIT 2 | PHANTOM | | |
| A_100_1001 | VISIT 2 | Example Item Bank v.1.0 | EIB-Standard Error | EIBSE | | | VISIT 2 | PHANTOM | | |
| A_100_1001 | VISIT 3 | Example Item Bank v.1.0 | EIB01-Item 1 | EIB01 | 2 | 7 | VISIT 3 | | | |
| A_100_1001 | VISIT 3 | Example Item Bank v.1.0 | EIB05-Item 5 | EIB05 | 1 | 8 | VISIT 3 | | | |
| A_100_1001 | VISIT 3 | Example Item Bank v.1.0 | EIB08-Item 8 | EIB08 | 1 | 9 | VISIT 3 | | | |
| A_100_1001 | VISIT 3 | Example Item Bank v.1.0 | EIB-Raw Score | EIBRAW | 16 | | VISIT 3 | | | |
| A_100_1001 | VISIT 3 | Example Item Bank v.1.0 | EIB-Theta Score | EIBTHETA | 2.5 | | VISIT 3 | | | |
| A_100_1001 | VISIT 3 | Example Item Bank v.1.0 | EIB-T-Score | EIBTSCR | 75 | | VISIT 3 | | | |
| A_100_1001 | VISIT 3 | Example Item Bank v.1.0 | EIB-Standard Error | EIBSE | 3.2 | | VISIT 3 | | | |



Thank You!

cdisc